

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020525\
 Data File : VN085687.D
 Acq On : 05 Feb 2025 19:11
 Operator : JC\MD
 Sample : Q1287-10
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 06 00:46:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

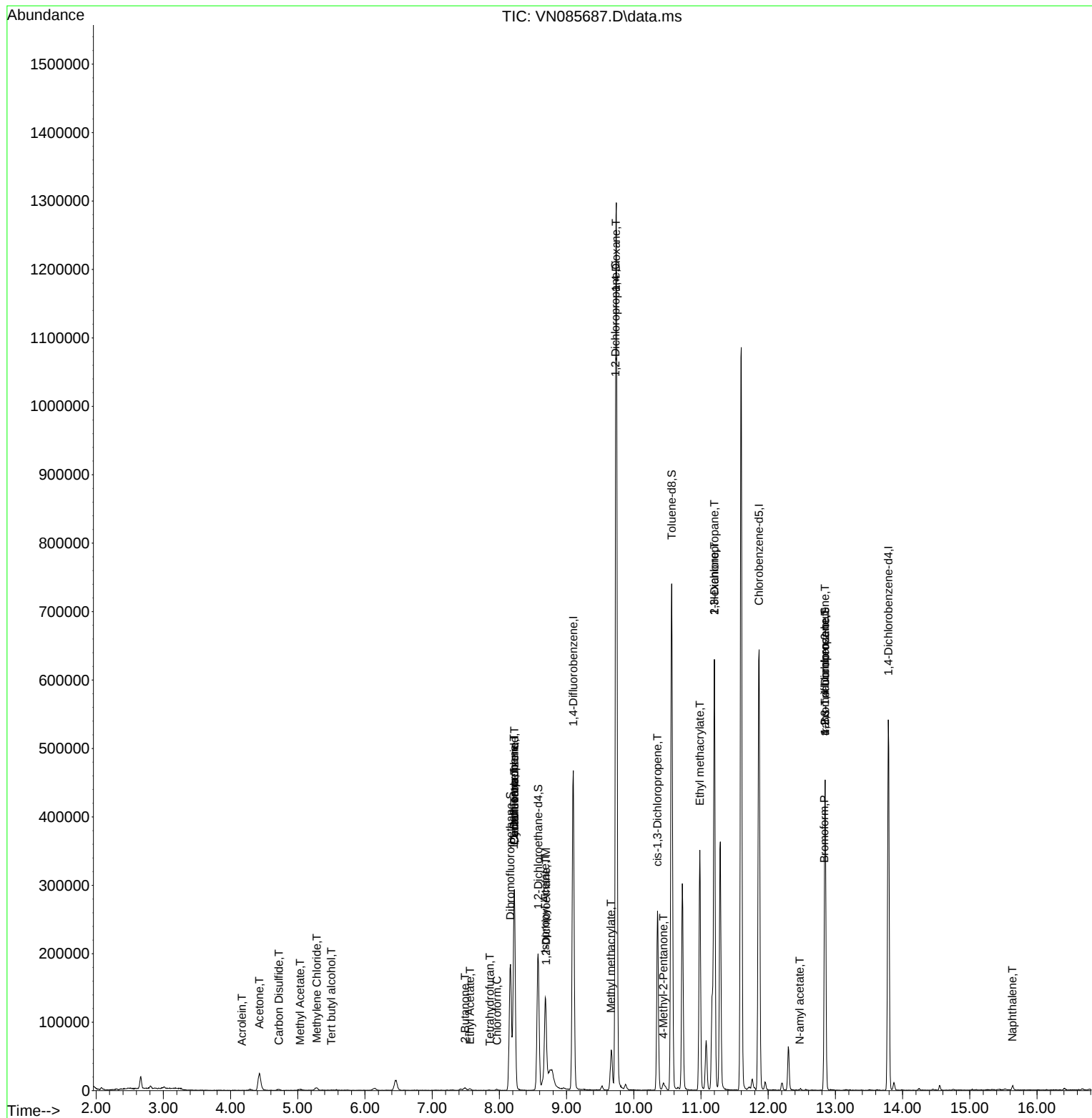
Internal Standards						
1) Pentafluorobenzene	8.224	168	205540	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	405236	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	373093	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	143504	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	160628	48.413	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.820%		
35) Dibromofluoromethane	8.165	113	135146	48.072	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.140%		
50) Toluene-d8	10.565	98	514058	51.464	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.920%		
62) 4-Bromofluorobenzene	12.847	95	151046	44.206	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	88.420%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.500	59	198	0.521	ug/l #	71
13) Acrolein	4.171	56	120	0.231	ug/l #	73
16) Acetone	4.430	43	46544	43.417	ug/l	89
17) Carbon Disulfide	4.718	76	3417	0.503	ug/l #	76
18) Methyl Acetate	5.036	43	3245	0.995	ug/l #	56
20) Methylene Chloride	5.283	84	3085	1.162	ug/l #	82
25) 2-Butanone	7.489	43	6780	4.298	ug/l #	89
29) Tetrahydrofuran	7.859	42	428	0.428	ug/l #	44
30) Chloroform	7.965	83	1667	0.333	ug/l	91
31) Cyclohexane	8.224	56	5083	1.207	ug/l #	4
36) 1,1-Dichloropropene	8.218	75	18341	4.648	ug/l #	51
37) Ethyl Acetate	7.565	43	3396	0.853	ug/l #	82
38) Carbon Tetrachloride	8.224	117	22097	4.892	ug/l #	18
42) 1,2-Dichloroethane	8.694	62	1073	0.240	ug/l #	76
43) Isopropyl Acetate	8.683	43	163051	25.551	ug/l #	87
45) 1,2-Dichloropropane	9.730	63	1665	0.550	ug/l #	43
48) Methyl methacrylate	9.659	41	3932	1.369	ug/l #	47
49) 1,4-Dioxane	9.735	88	126	2.605	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	10693	2.888	ug/l #	78
54) cis-1,3-Dichloropropene	10.353	75	46825	10.420	ug/l #	66
56) Ethyl methacrylate	10.982	69	1897	2.329	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	6860	1.451	ug/l #	43
59) 2-Hexanone	11.200	43	81701	31.356	ug/l #	56
71) Bromoform	12.835	173	1278	0.595	ug/l #	1
74) N-amyl acetate	12.471	43	1008	0.232	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	82262	28.203	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	82262	76.306	ug/l #	3
95) Naphthalene	15.635	128	6179	0.958	ug/l #	96

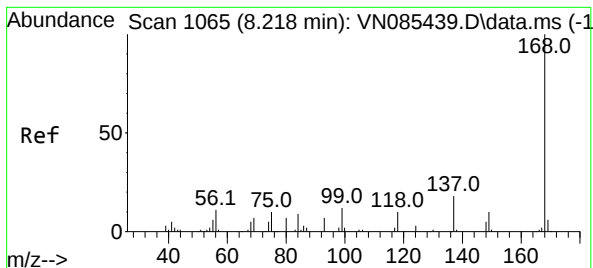
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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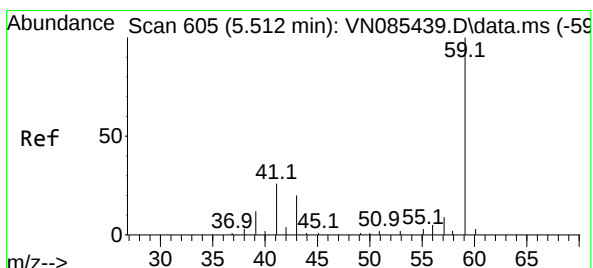
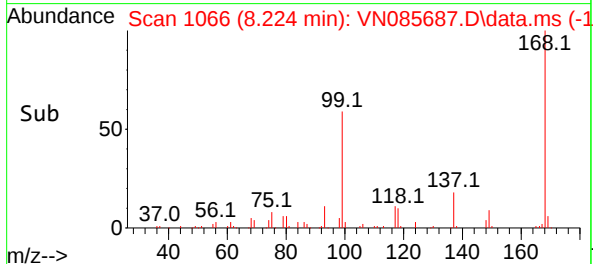
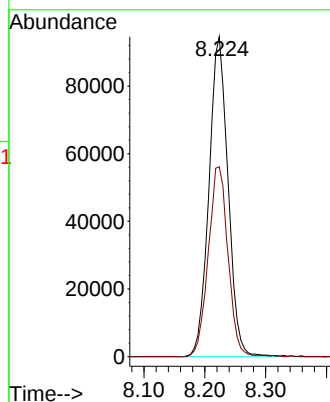
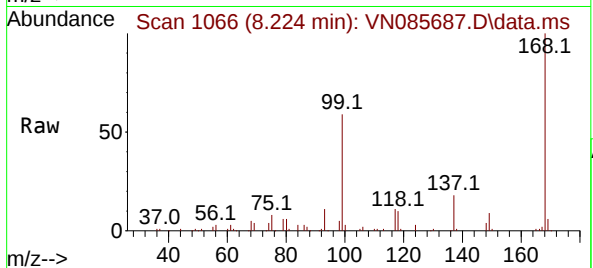




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

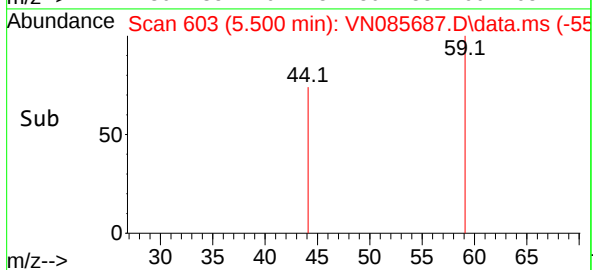
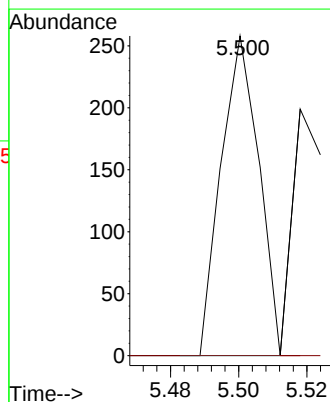
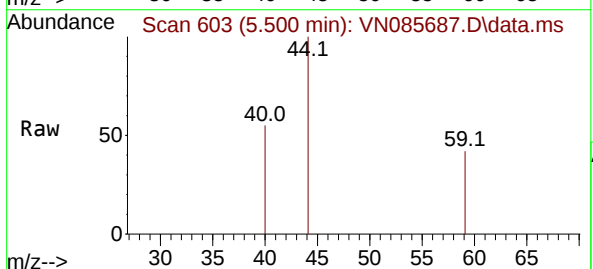
Instrument :
MSVOA_N
ClientSampleId :

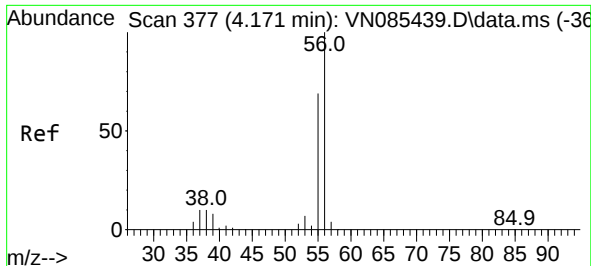
Tgt Ion:168 Resp: 205540
Ion Ratio Lower Upper
168 100
99 59.3 53.6 80.4



#11
Tert butyl alcohol
Concen: 0.521 ug/l
RT: 5.500 min Scan# 603
Delta R.T. -0.012 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

Tgt Ion: 59 Resp: 198
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#

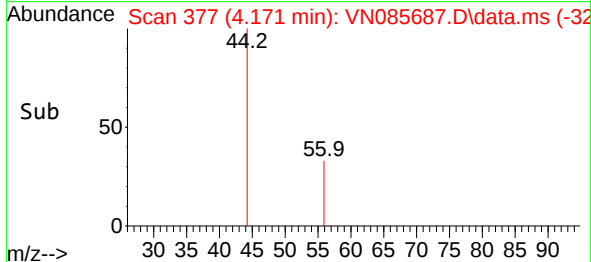
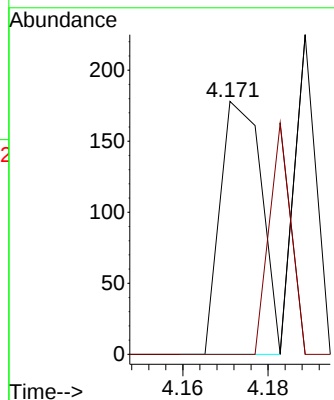
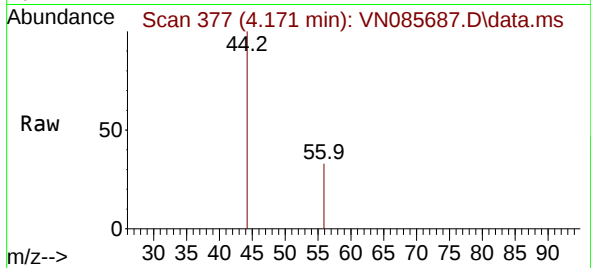




#13
Acrolein
Concen: 0.231 ug/l
RT: 4.171 min Scan# 31
Delta R.T. 0.000 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

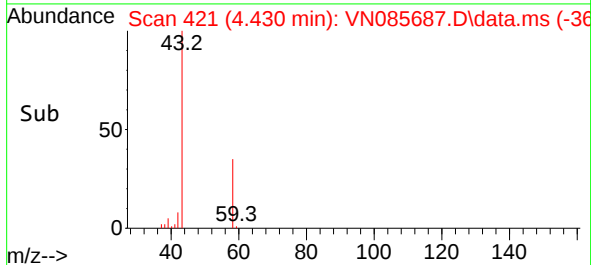
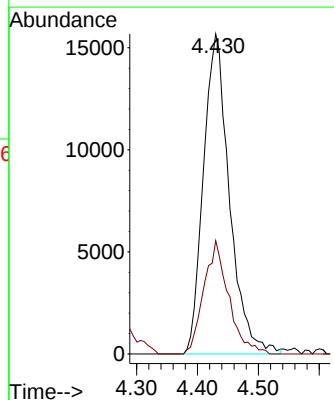
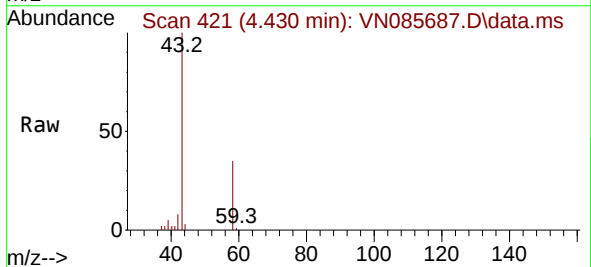
Instrument :
MSVOA_N
ClientSampleId :

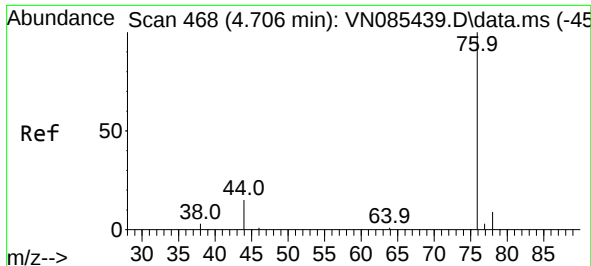
Tgt Ion: 56 Resp: 120
Ion Ratio Lower Upper
56 100
55 48.3 56.3 84.5#



#16
Acetone
Concen: 43.417 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.012 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

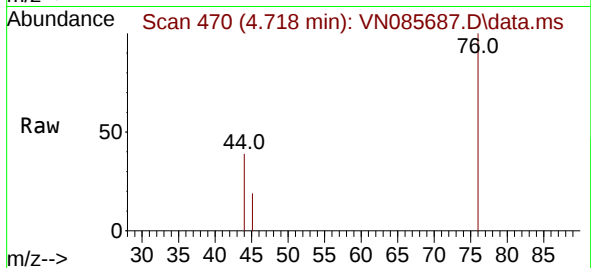
Tgt Ion: 43 Resp: 46544
Ion Ratio Lower Upper
43 100
58 35.4 23.8 35.6



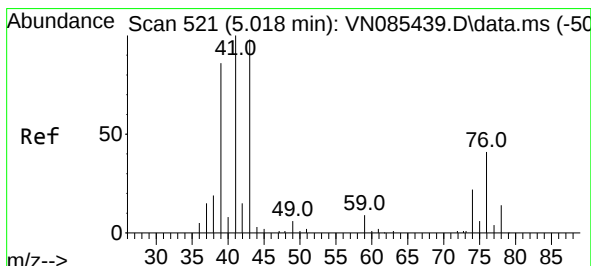
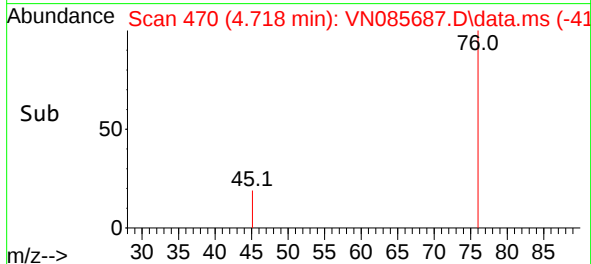
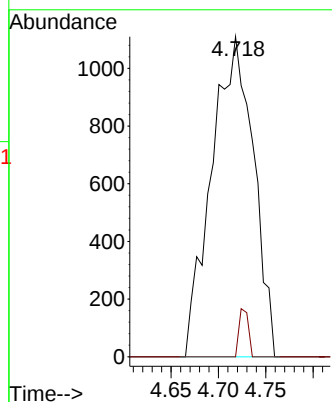


#17
Carbon Disulfide
Concen: 0.503 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

Instrument :
MSVOA_N
ClientSampleId :

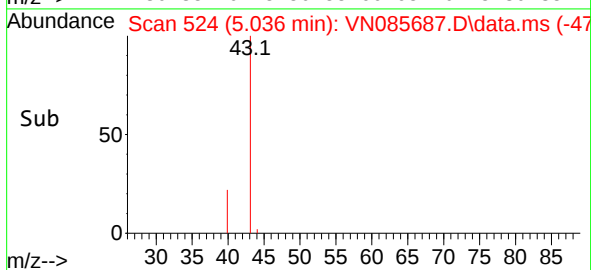
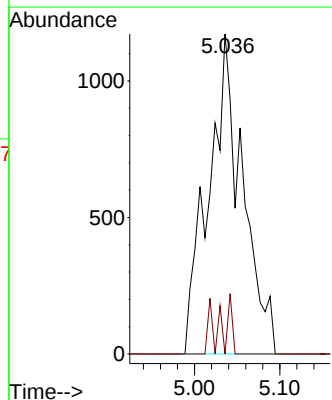
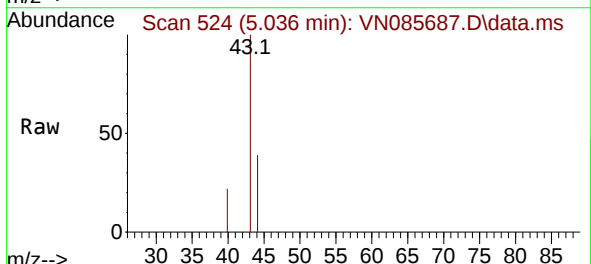


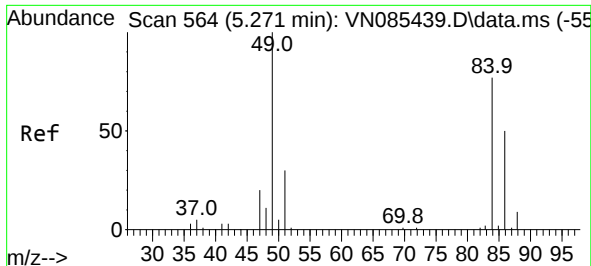
Tgt Ion: 76 Resp: 3417
Ion Ratio Lower Upper
76 100
78 0.0 6.9 10.3#



#18
Methyl Acetate
Concen: 0.995 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.018 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

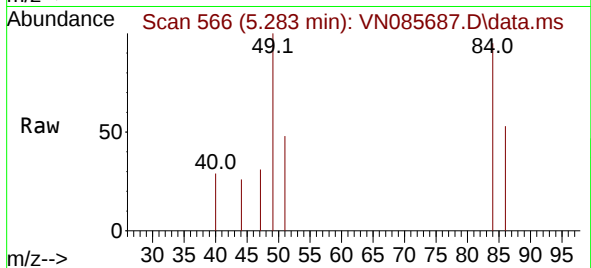
Tgt Ion: 43 Resp: 3245
Ion Ratio Lower Upper
43 100
74 1.9 18.6 28.0#



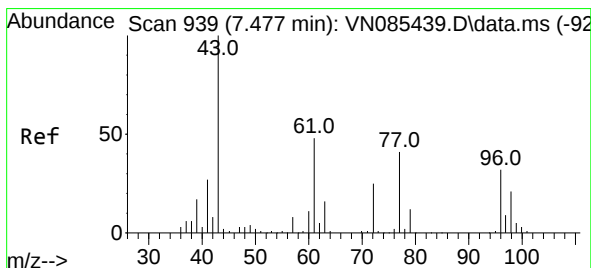
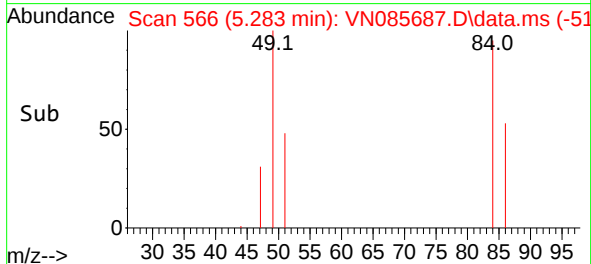
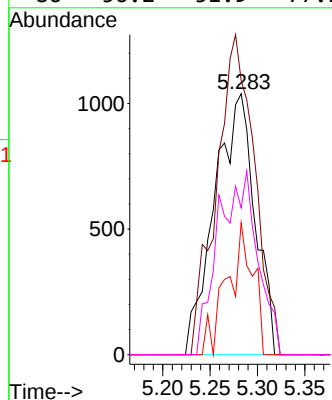


#20
Methylene Chloride
Concen: 1.162 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

Instrument :
MSVOA_N
ClientSampleId :

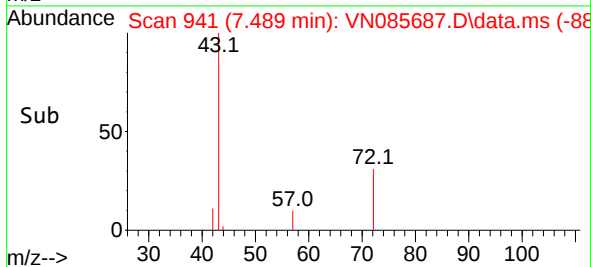
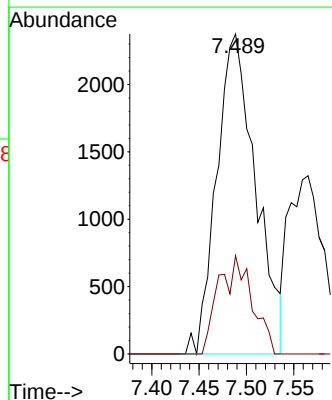
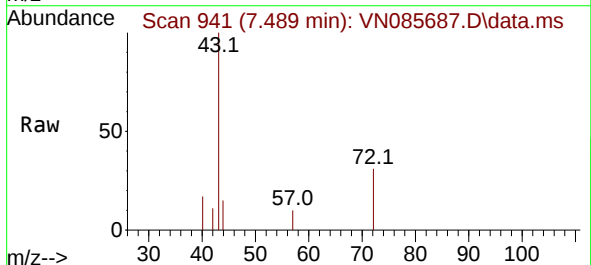


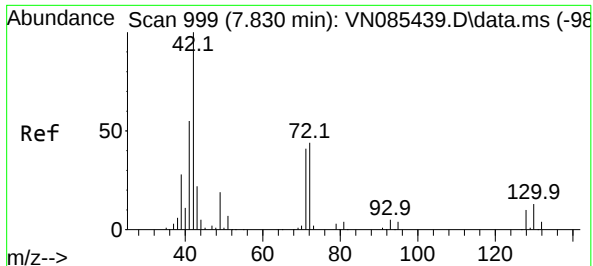
Tgt Ion: 84 Resp: 3085
Ion Ratio Lower Upper
84 100
49 105.1 104.1 156.1
51 50.5 31.0 46.4#
86 56.2 51.9 77.9



#25
2-Butanone
Concen: 4.298 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

Tgt Ion: 43 Resp: 6780
Ion Ratio Lower Upper
43 100
72 30.7 20.2 30.4#





#29

Tetrahydrofuran

Concen: 0.428 ug/l

RT: 7.859 min Scan# 1004

Delta R.T. 0.029 min

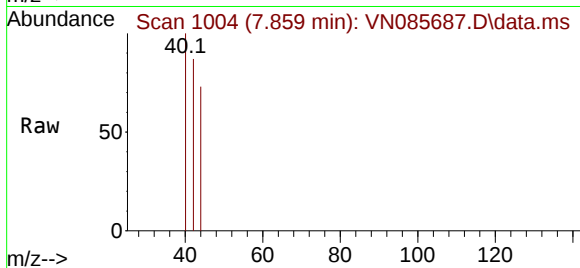
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Acq: 05 Feb 2025 19:11

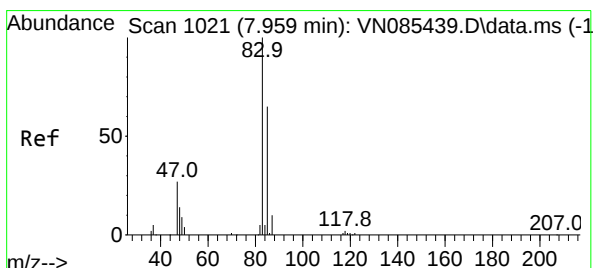
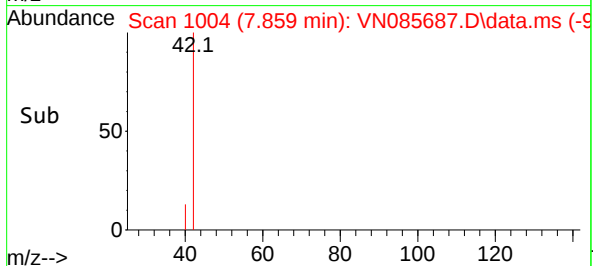
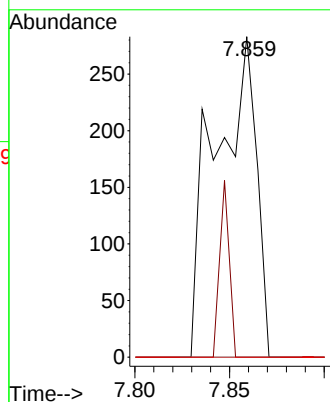
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	428
Ion	Ratio	Lower	Upper
42	100		
72	12.9	34.2	51.2#
71	0.0	32.5	48.7#



#30

Chloroform

Concen: 0.333 ug/l

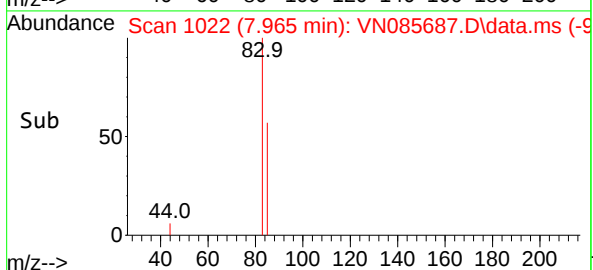
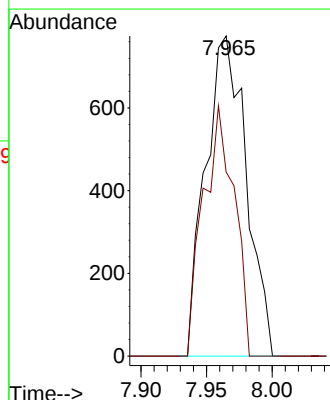
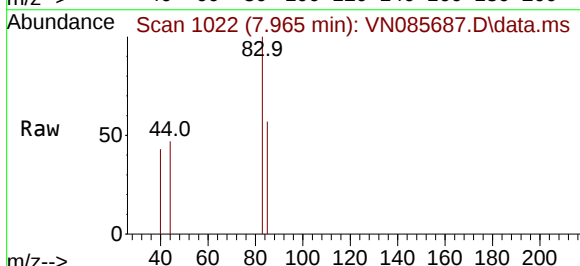
RT: 7.965 min Scan# 1022

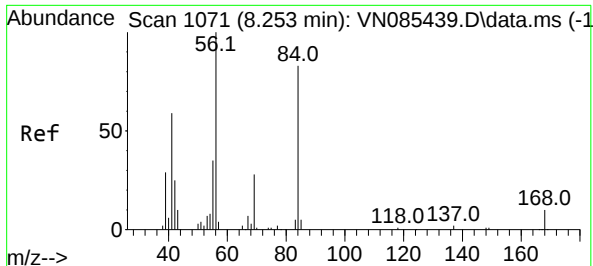
Delta R.T. 0.006 min

Lab File: VN085687.D

Acq: 05 Feb 2025 19:11

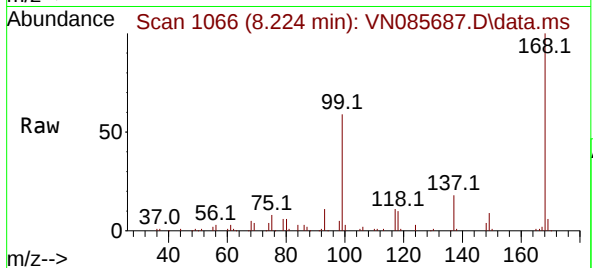
Tgt Ion:	83	Resp:	1667
Ion	Ratio	Lower	Upper
83	100		
85	57.5	51.8	77.6



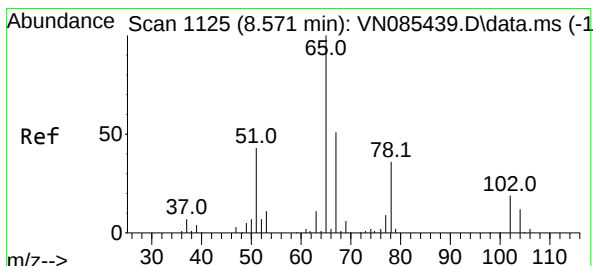
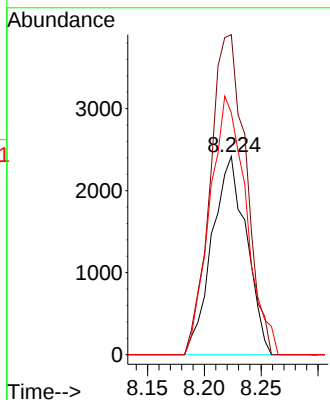
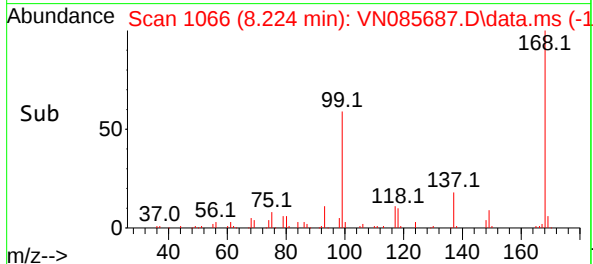


#31
Cyclohexane
Concen: 1.207 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

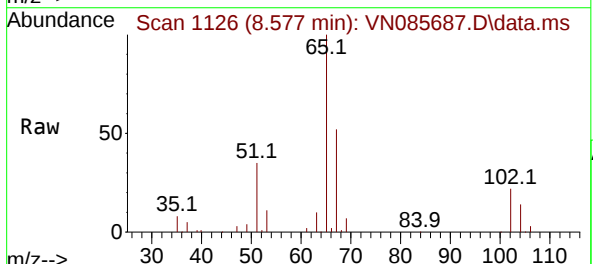
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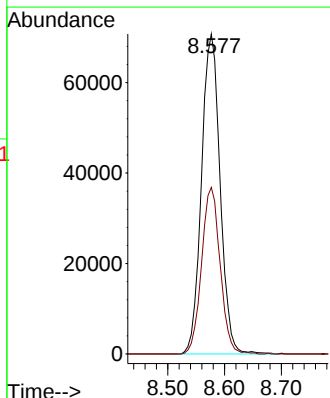
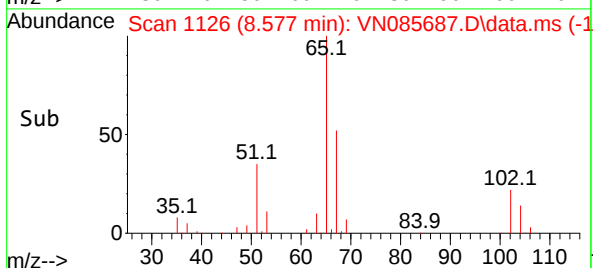
Tgt Ion: 56 Resp: 5083
Ion Ratio Lower Upper
56 100
69 161.5 22.2 33.4#
84 122.0 66.4 99.6#

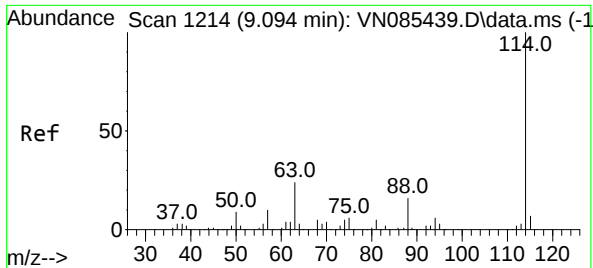


#33
1,2-Dichloroethane-d4
Concen: 48.413 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11



Tgt Ion: 65 Resp: 160628
Ion Ratio Lower Upper
65 100
67 51.8 0.0 101.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085687.D

Acq: 05 Feb 2025 19:11

Instrument :

MSVOA_N

ClientSampleId :

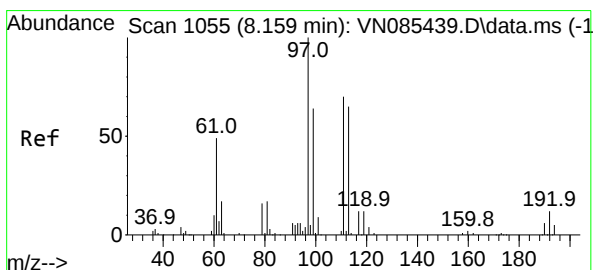
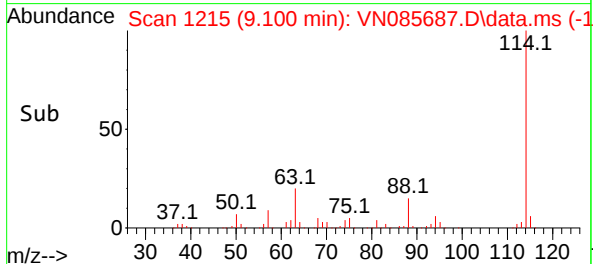
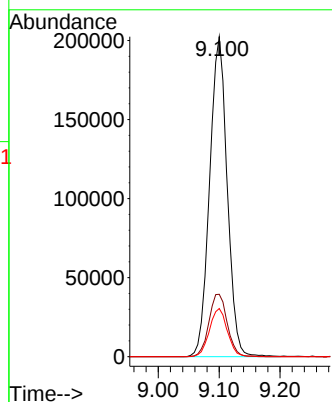
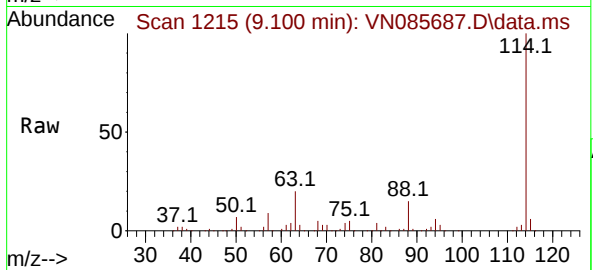
Tgt Ion:114 Resp: 405236

Ion Ratio Lower Upper

114 100

63 19.5 0.0 47.6

88 15.0 0.0 32.6



#35

Dibromofluoromethane

Concen: 48.072 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085687.D

Acq: 05 Feb 2025 19:11

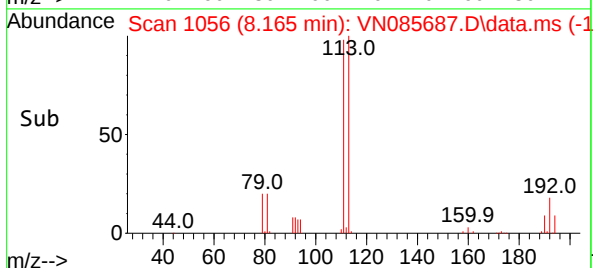
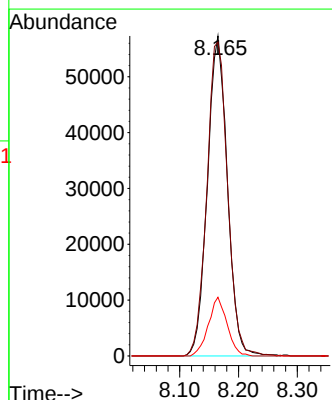
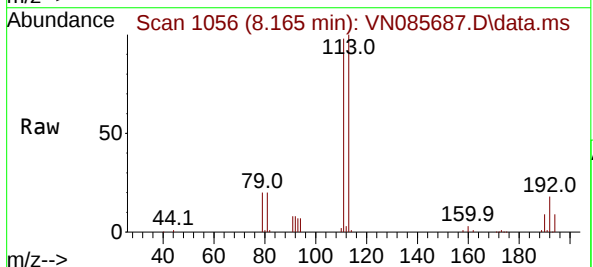
Tgt Ion:113 Resp: 135146

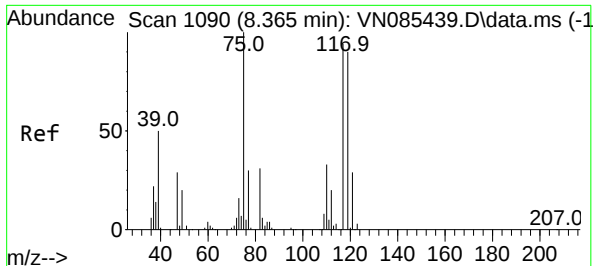
Ion Ratio Lower Upper

113 100

111 102.0 82.7 124.1

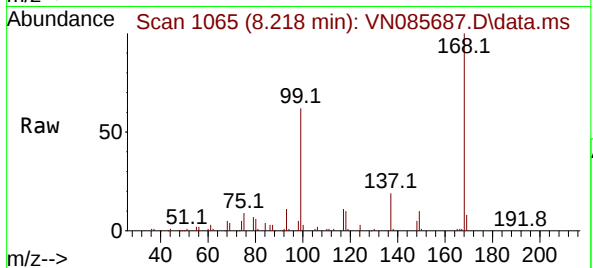
192 17.2 14.3 21.5



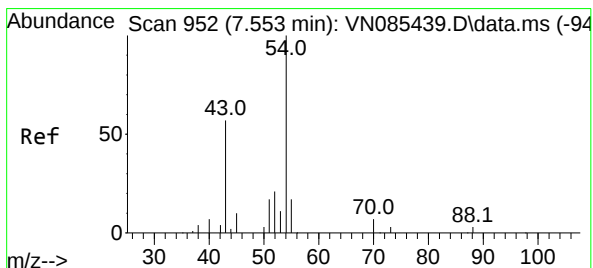
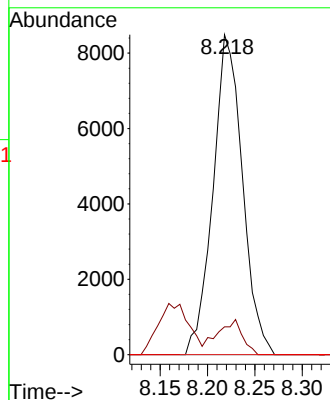
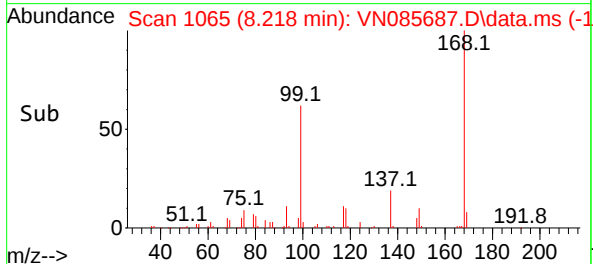


#36
1,1-Dichloropropene
Concen: 4.648 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.147 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

Instrument :
MSVOA_N
ClientSampleId :

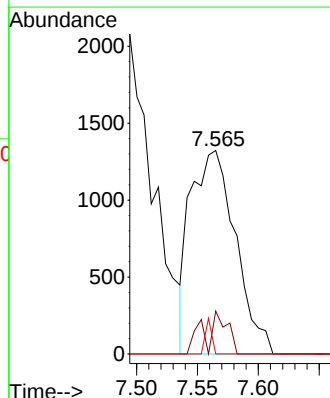
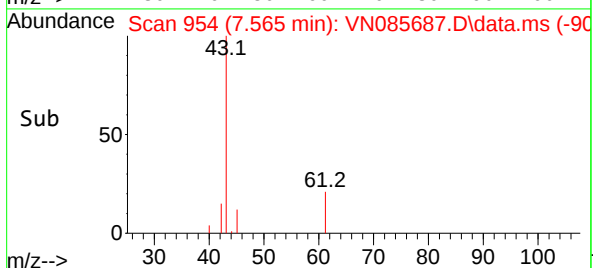
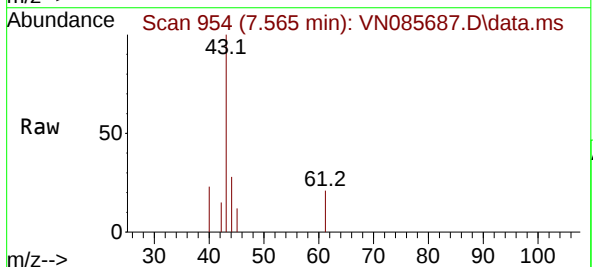


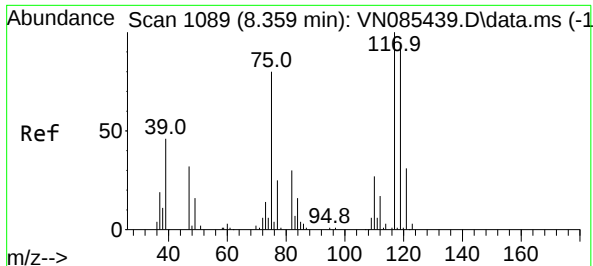
Tgt Ion: 75 Resp: 18341
Ion Ratio Lower Upper
75 100
110 9.4 16.5 49.5#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 0.853 ug/l
RT: 7.565 min Scan# 954
Delta R.T. 0.012 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

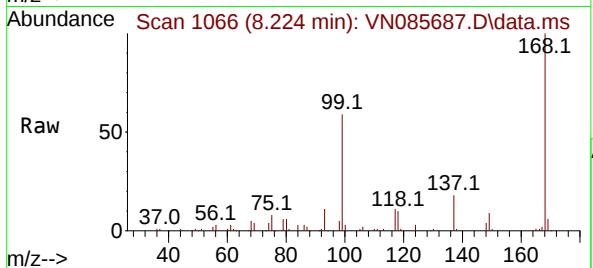
Tgt Ion: 43 Resp: 3396
Ion Ratio Lower Upper
43 100
61 6.8 10.9 16.3#
70 2.4 7.5 11.3#



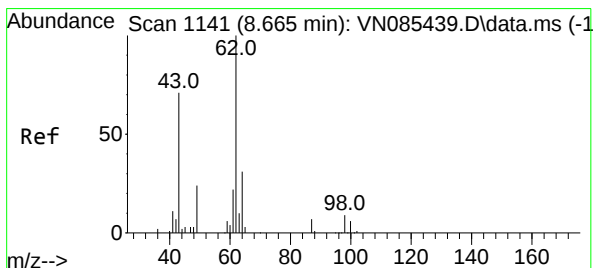
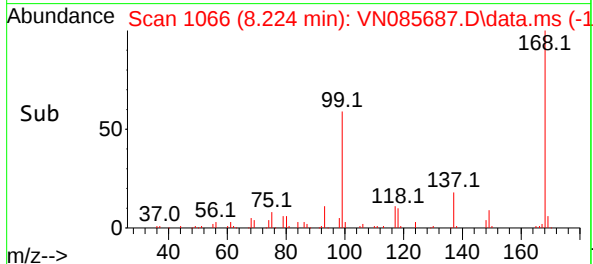
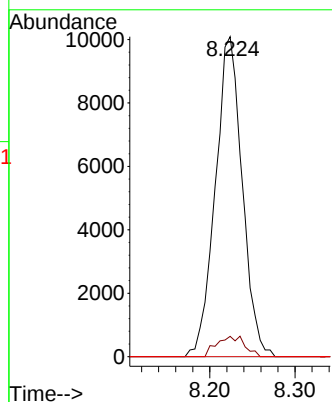


#38
Carbon Tetrachloride
Concen: 4.892 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

Instrument :
MSVOA_N
ClientSampleId :

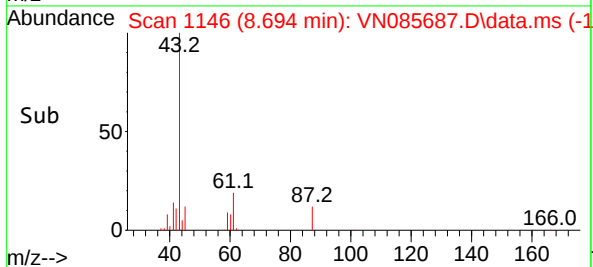
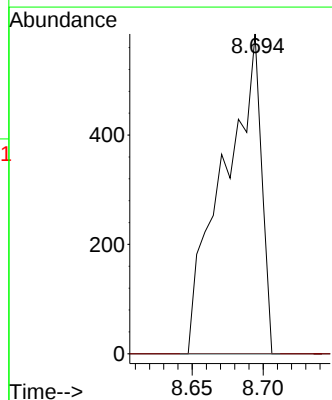
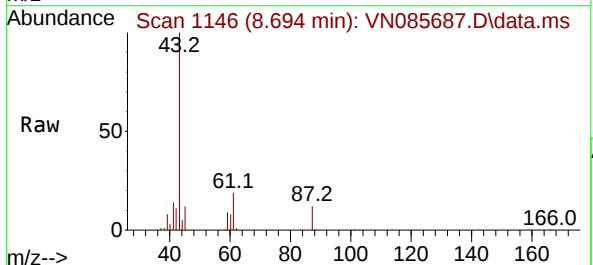


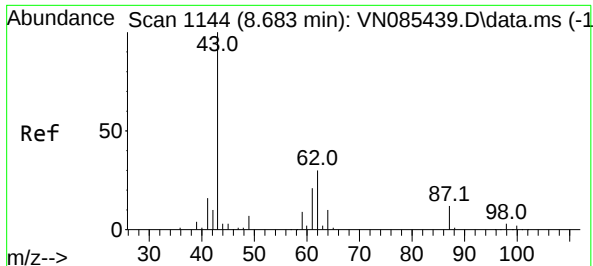
Tgt Ion:117 Resp: 22097
Ion Ratio Lower Upper
117 100
119 6.3 75.4 113.2#
121 0.0 24.6 37.0#



#42
1,2-Dichloroethane
Concen: 0.240 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.029 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

Tgt Ion: 62 Resp: 1073
Ion Ratio Lower Upper
62 100
98 0.0 0.0 17.0

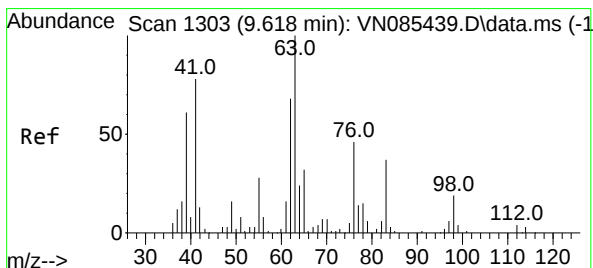
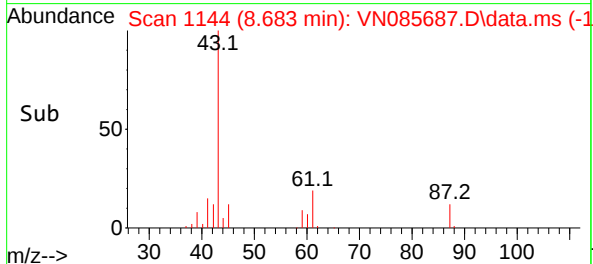
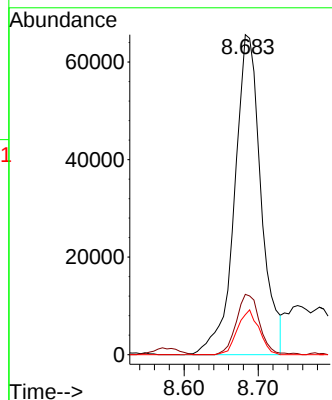
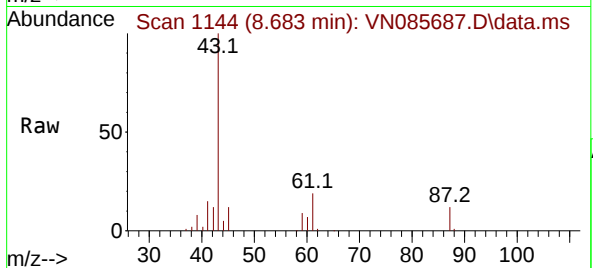




#43
Isopropyl Acetate
Concen: 25.551 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. 0.000 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

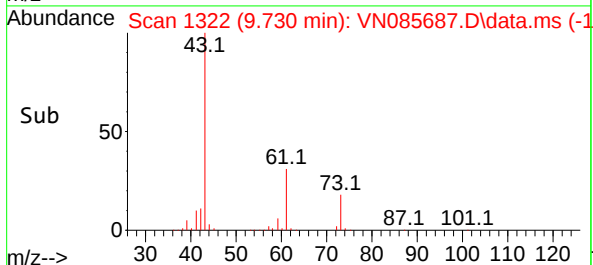
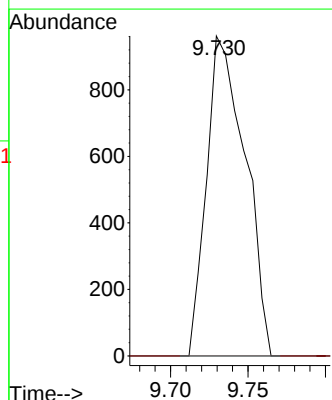
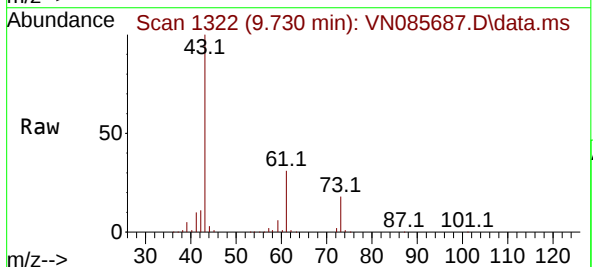
Instrument :
MSVOA_N
ClientSampleId :

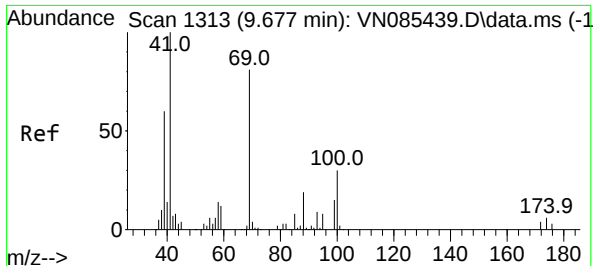
Tgt Ion: 43 Resp: 163051
Ion Ratio Lower Upper
43 100
61 16.6 20.7 31.1#
87 11.4 9.8 14.8



#45
1,2-Dichloropropane
Concen: 0.550 ug/l
RT: 9.730 min Scan# 1322
Delta R.T. 0.112 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

Tgt Ion: 63 Resp: 1665
Ion Ratio Lower Upper
63 100
65 0.0 25.6 38.4#

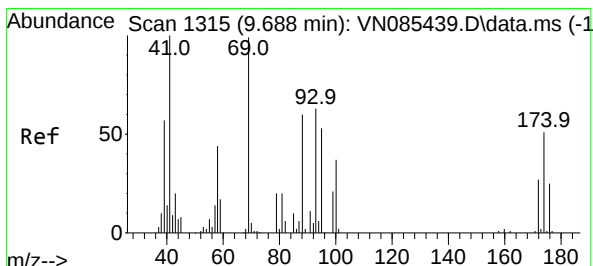
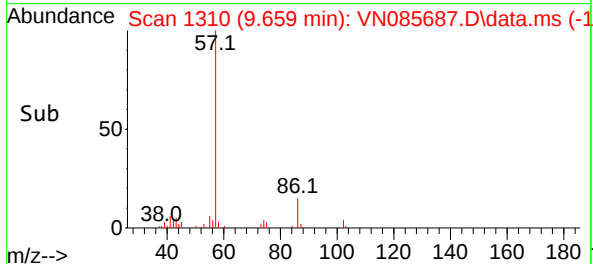
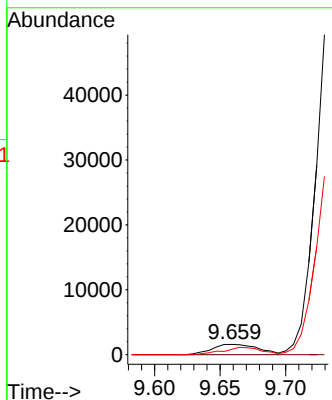
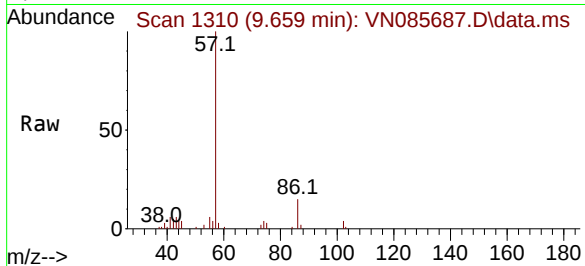




#48
Methyl methacrylate
Concen: 1.369 ug/l
RT: 9.659 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

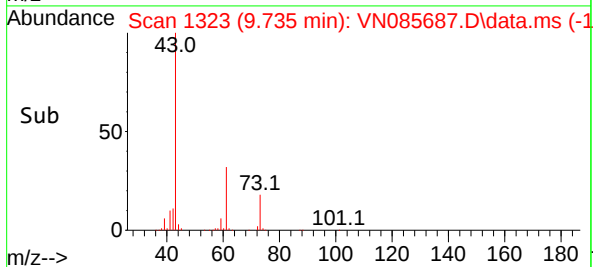
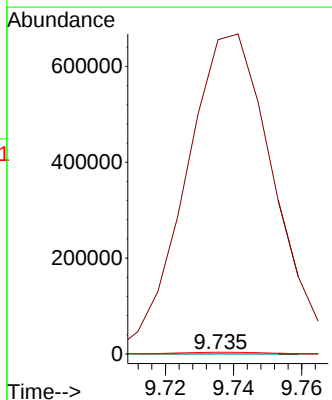
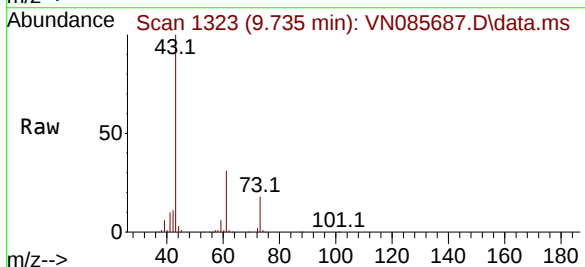
Instrument :
MSVOA_N
ClientSampleId :

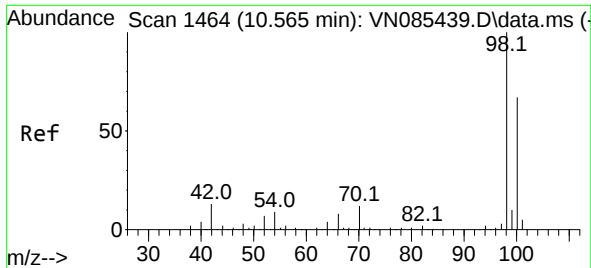
Tgt Ion: 41 Resp: 3932
Ion Ratio Lower Upper
41 100
69 0.0 64.7 97.1#
39 58.9 49.0 73.6



#49
1,4-Dioxane
Concen: 2.605 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.047 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

Tgt Ion: 88 Resp: 126
Ion Ratio Lower Upper
88 100
43 963661.1 26.6 39.8#
58 5362.7 59.5 89.3#

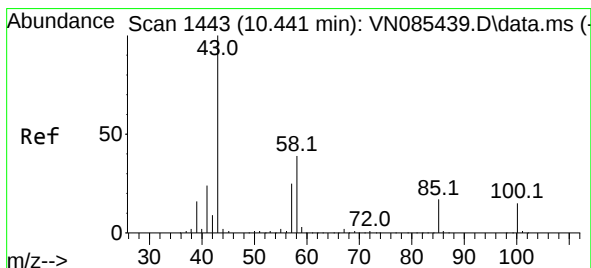
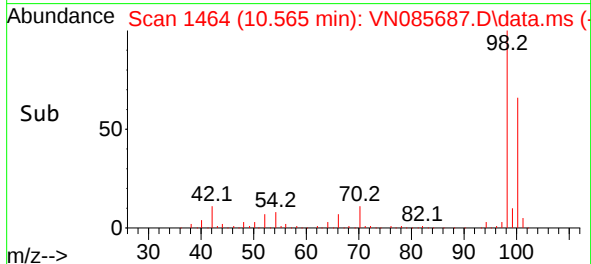
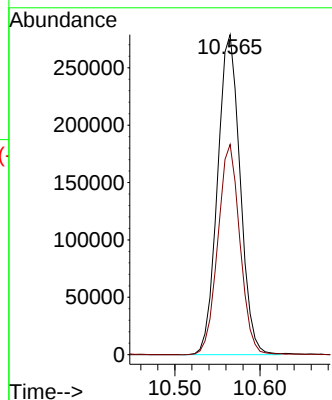
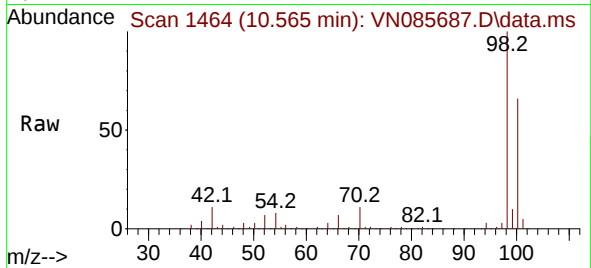




#50
Toluene-d8
Concen: 51.464 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

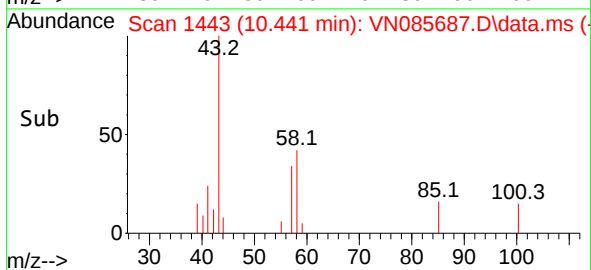
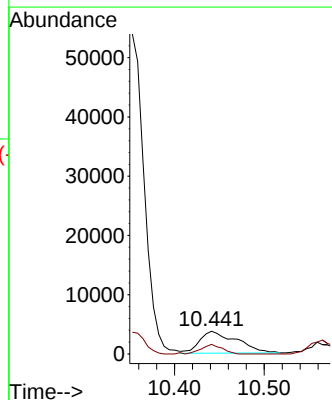
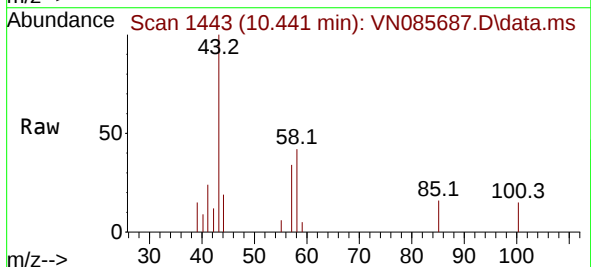
Instrument :
MSVOA_N
ClientSampleId :

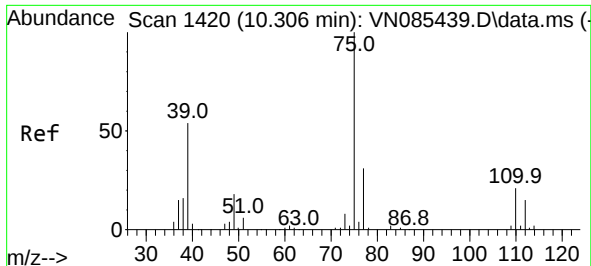
Tgt Ion: 98 Resp: 514058
Ion Ratio Lower Upper
98 100
100 64.4 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 2.888 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

Tgt Ion: 43 Resp: 10693
Ion Ratio Lower Upper
43 100
58 24.7 30.5 45.7#

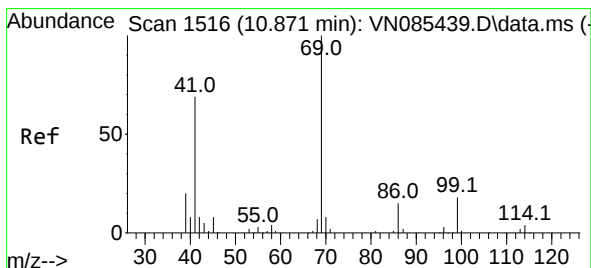
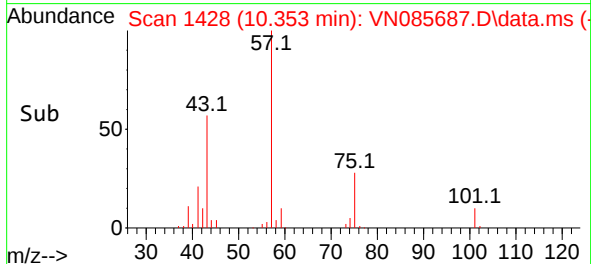
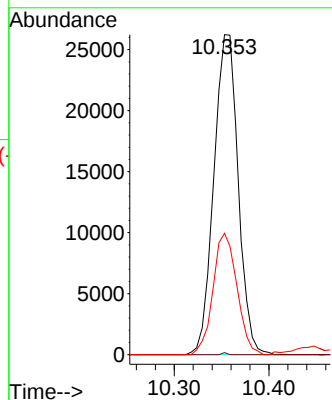
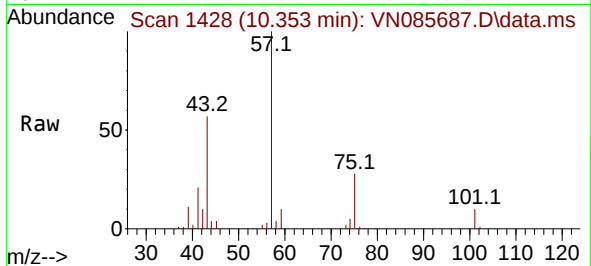




#54
cis-1,3-Dichloropropene
Concen: 10.420 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

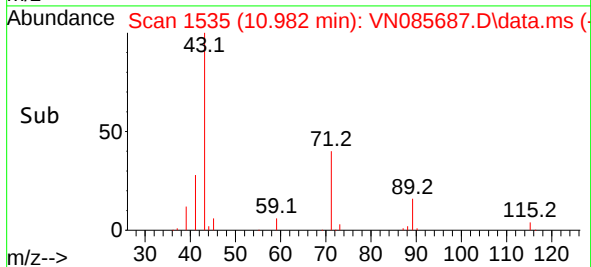
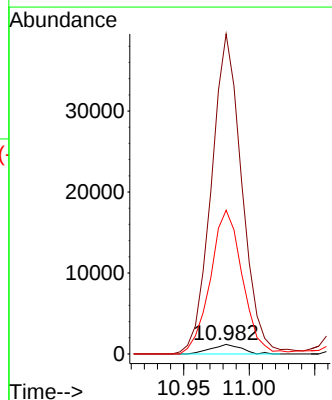
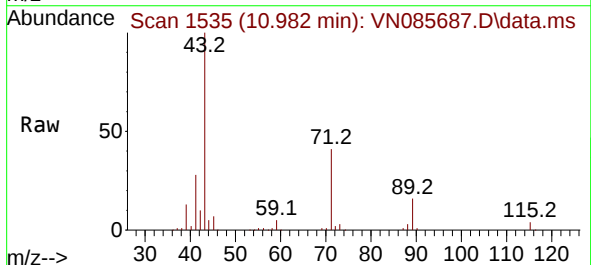
Instrument :
MSVOA_N
ClientSampleId :

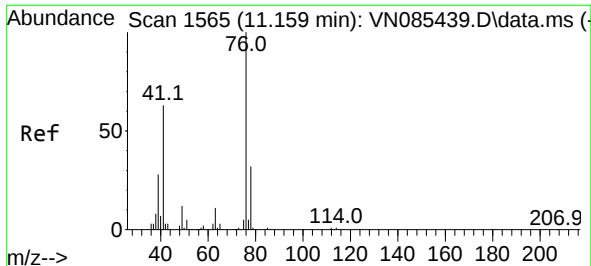
Tgt Ion: 75 Resp: 46825
Ion Ratio Lower Upper
75 100
77 0.7 25.0 37.4#
39 37.9 43.1 64.7#



#56
Ethyl methacrylate
Concen: 2.329 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.111 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

Tgt Ion: 69 Resp: 1897
Ion Ratio Lower Upper
69 100
41 3386.3 54.6 82.0#
39 1589.7 32.4 48.6#





#57

1,3-Dichloropropane

Concen: 1.451 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN085687.D

Acq: 05 Feb 2025 19:11

Instrument :

MSVOA_N

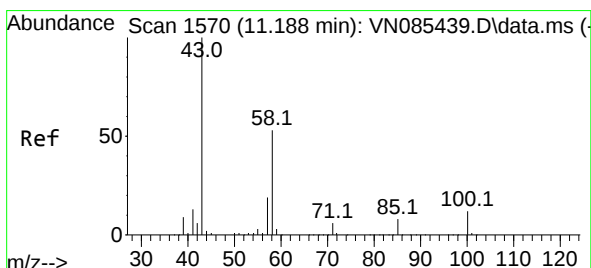
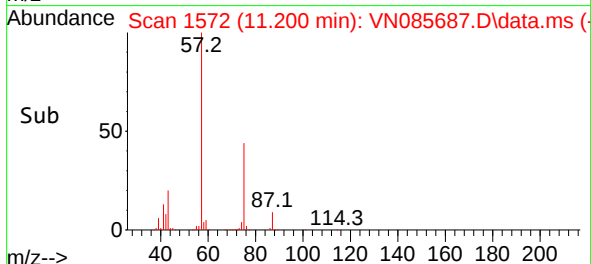
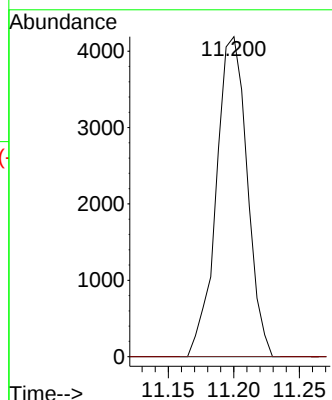
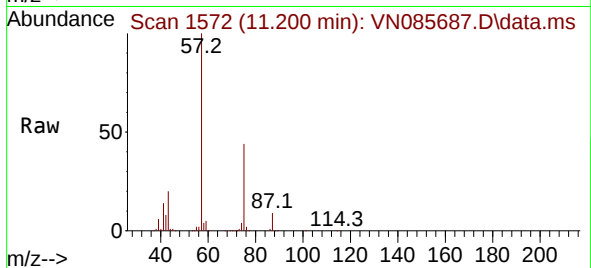
ClientSampleId :

Tgt Ion: 76 Resp: 6860

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 31.356 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.012 min

Lab File: VN085687.D

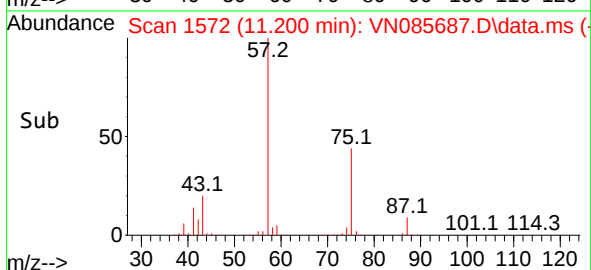
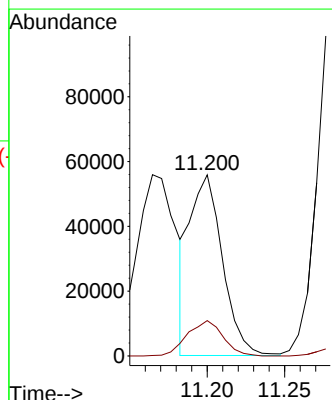
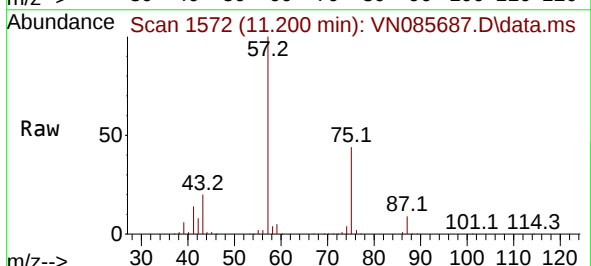
Acq: 05 Feb 2025 19:11

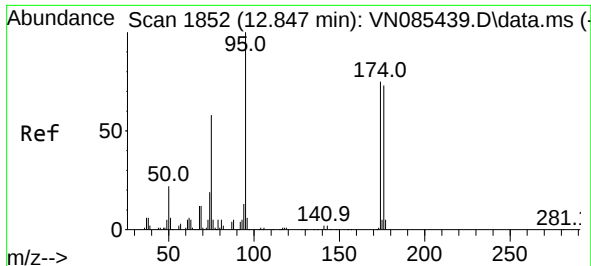
Tgt Ion: 43 Resp: 81701

Ion Ratio Lower Upper

43 100

58 21.5 26.2 78.6#

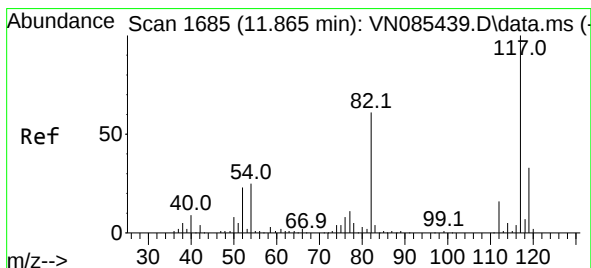
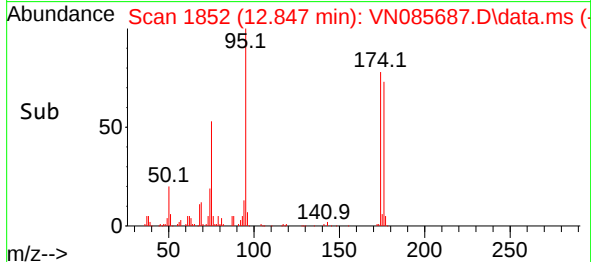
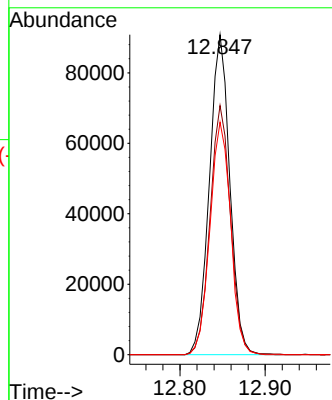
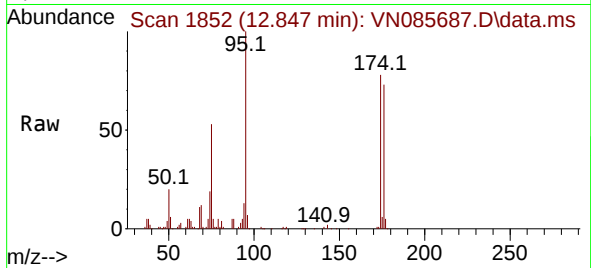




#62
4-Bromofluorobenzene
Concen: 44.206 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

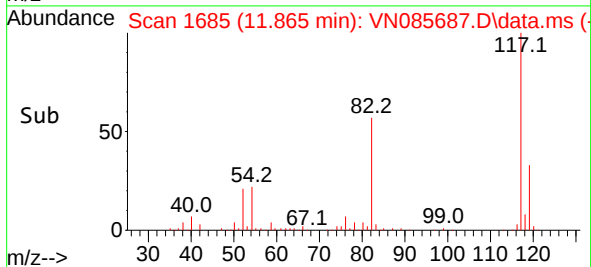
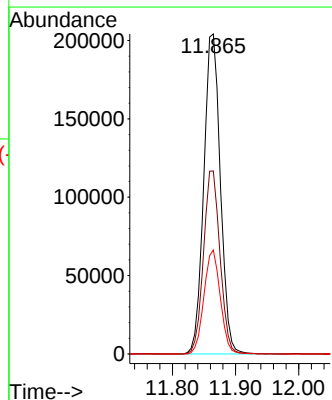
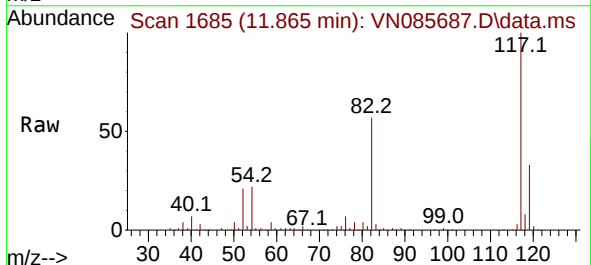
Instrument :
MSVOA_N
ClientSampleId :

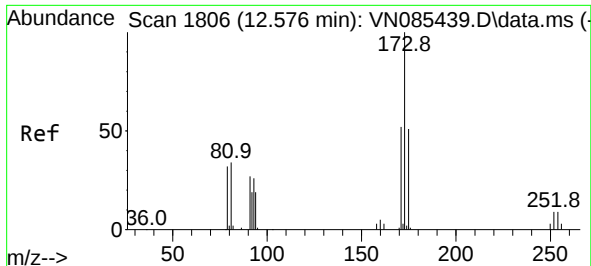
Tgt Ion: 95 Resp: 151046
Ion Ratio Lower Upper
95 100
174 78.4 0.0 145.0
176 73.6 0.0 142.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

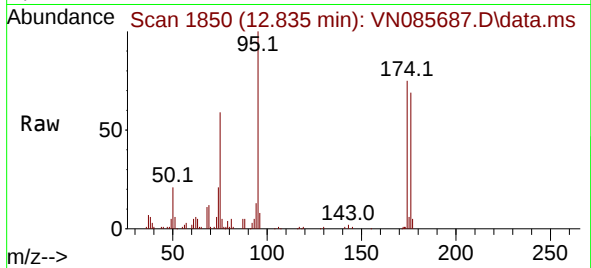
Tgt Ion: 117 Resp: 373093
Ion Ratio Lower Upper
117 100
82 57.2 48.6 72.8
119 32.5 26.6 39.8



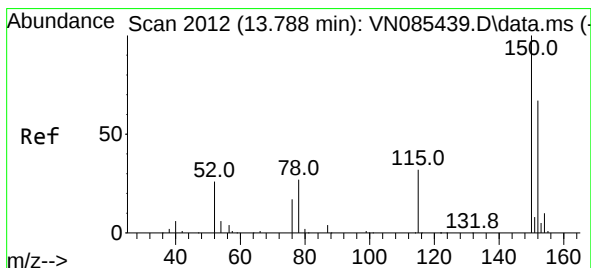
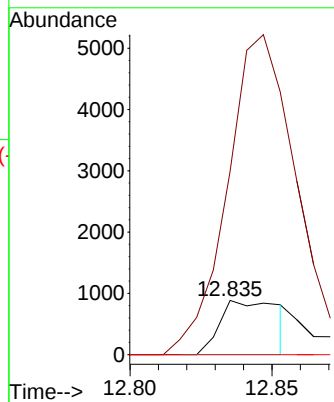
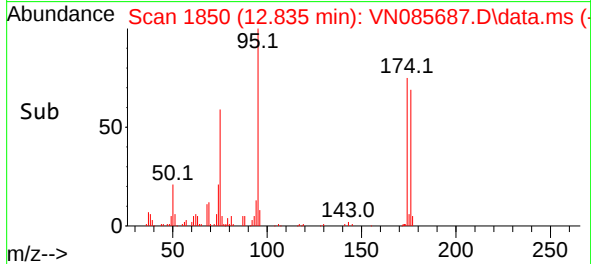


#71
Bromoform
Concen: 0.595 ug/l
RT: 12.835 min Scan# 1806
Delta R.T. 0.259 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

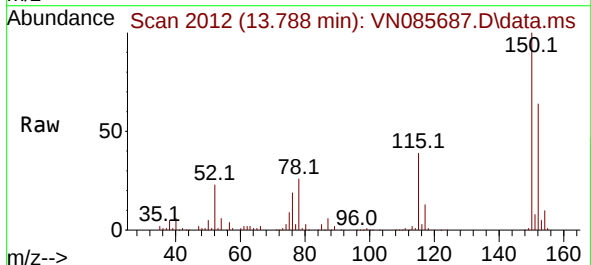
Instrument :
MSVOA_N
ClientSampleId :



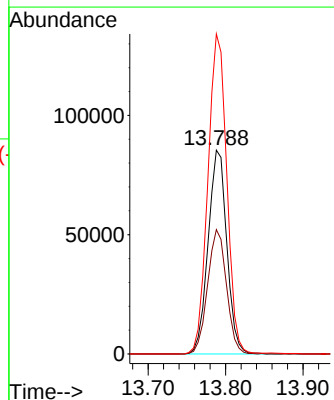
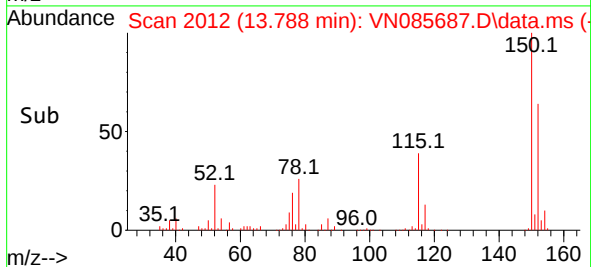
Tgt Ion:173 Resp: 1278
Ion Ratio Lower Upper
173 100
175 544.3 24.4 73.2#
254 0.0 0.0 0.0

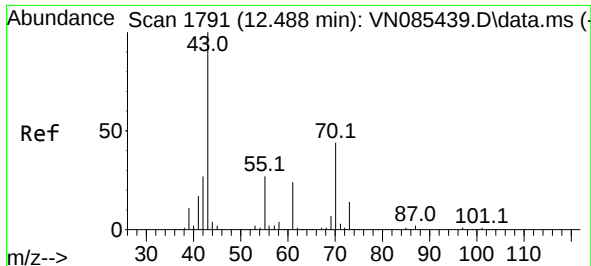


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11



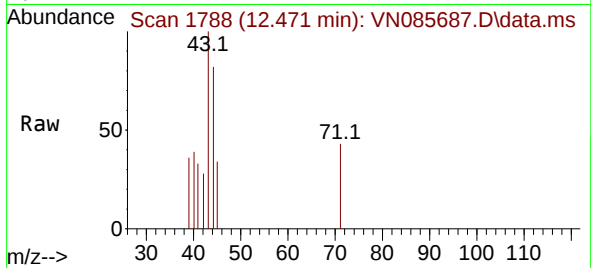
Tgt Ion:152 Resp: 143504
Ion Ratio Lower Upper
152 100
115 61.5 31.1 93.3
150 158.2 0.0 343.6



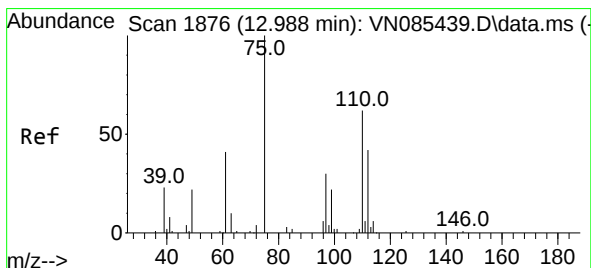
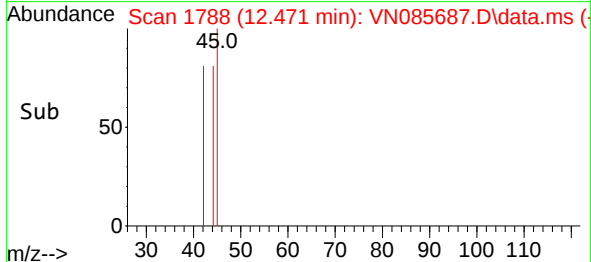
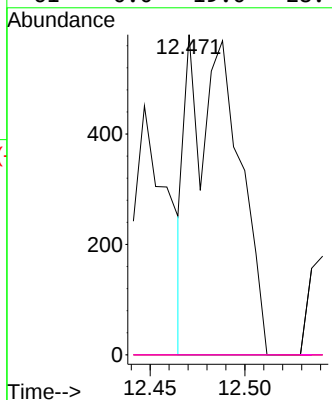


#74
N-amy1 acetate
Concen: 0.232 ug/l
RT: 12.471 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

Instrument :
MSVOA_N
ClientSampleId :

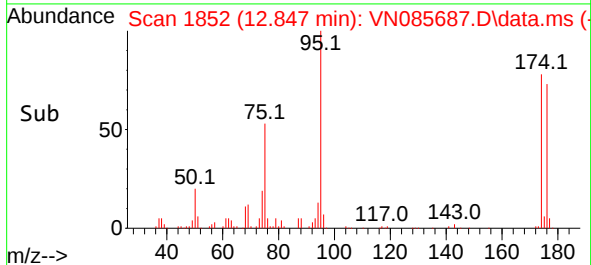
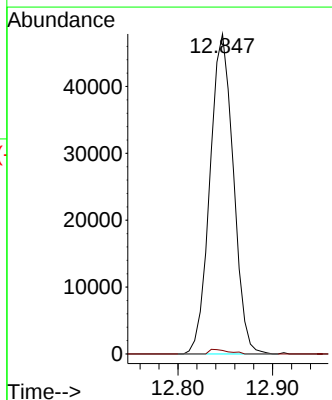
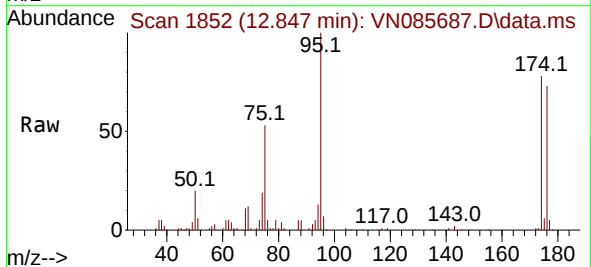


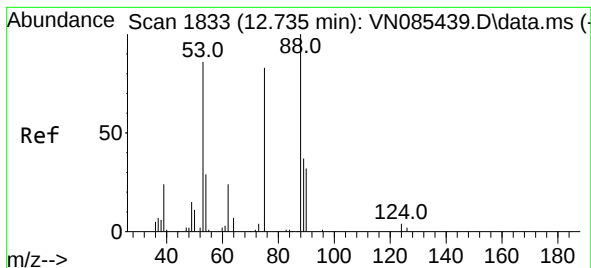
Tgt Ion: 43 Resp: 1008
Ion Ratio Lower Upper
43 100
70 0.0 34.0 51.0#
55 0.0 21.4 32.2#
61 0.0 19.0 28.4#



#76
1,2,3-Trichloropropane
Concen: 28.203 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

Tgt Ion: 75 Resp: 82262
Ion Ratio Lower Upper
75 100
77 1.2 109.7 329.2#

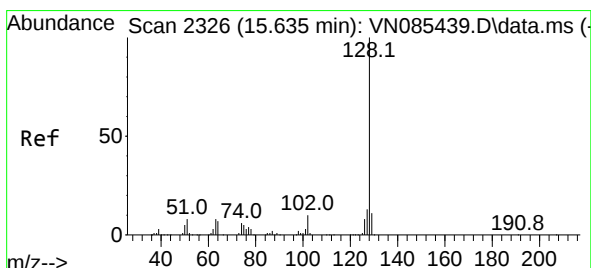
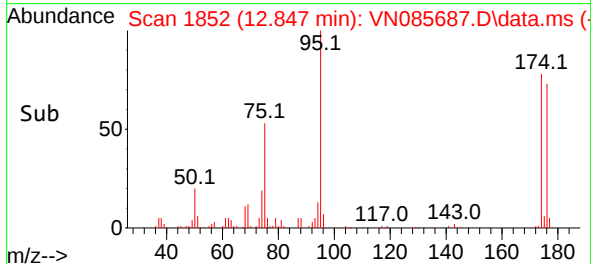
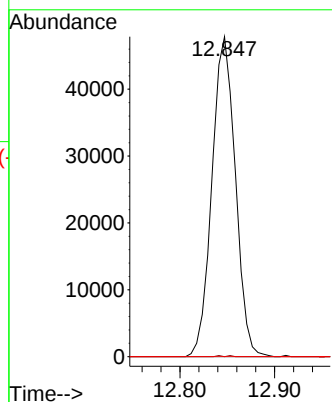
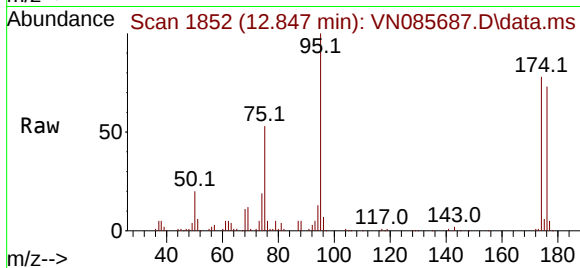




#81
trans-1,4-Dichloro-2-butene
Concen: 76.306 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 82262
Ion Ratio Lower Upper
75 100
53 0.1 95.6 143.4#
89 0.0 37.0 55.6#



#95
Naphthalene
Concen: 0.958 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. 0.000 min
Lab File: VN085687.D
Acq: 05 Feb 2025 19:11

Tgt Ion:128 Resp: 6179
Ion Ratio Lower Upper
128 100
127 12.4 10.6 16.0
129 8.6 8.8 13.2#

